

PTO-1449 REPRODUCED <b>INFORMATION DISCLOSURE CITATION FOR AN APPLICATION</b> AUG 18 2004 August 13, 2004 (use several sheets if necessary)		ATTORNEY DOCKET NO. 3650.1003-007	APPLICATION NO. 10/730,751
		FIRST NAMED INVENTOR Stavros C. Manolagas	FILING DATE December 8, 2003
		EXAMINER Not Assigned	CONFIRMATION NO. 4492
			GROUP 1632

U.S. PATENT DOCUMENTS				
EXAMINER INITIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
SM	AA	5,071,773	12/10/1991	Evans, et al.
	AB	5,189,212	02/23/1993	Ruenitz
	AC	5,298,429	03/29/1994	Evans, et al.
	AD	5,362,720	11/08/1994	Labrie
	AE	5,506,102	04/09/1996	McDonnell
	AF	5,545,634	08/13/1996	Labrie
	AG	5,554,601	09/10/1996	Simpkins, et al
	AH	5,567,695	10/22/1996	Labrie
	AI	5,843,934	12/01/1998	Simpkins, et al.
	AJ	5,846,960	12/08/1998	Labrie
	AK	5,877,007	03/02/1999	Housey
	AA2	6,080,779	06/27/2000	Gasper, et al.
	AB2	US 20020137209	09/26/2002	Manolagas, et al.
	AC2			
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EXAMINER <i>Stavros C. Manolagas</i>	DATE CONSIDERED 3/28/06
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FOREIGN PATENT DOCUMENTS				
	DOCUMENT NUMBER Country Code-Number-Kind Code (if known)	DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	TRANSLATION YES NO
AL	EP 0 753 523 A1	01/15/1997	Gador S.A.	
AM	WO 99/54728 A2	10/28/1999	Novalon Pharmaceuticals Corp.	
AN	WO 99/61044 A1	12/02/1999	The Board of Trustees of the University of Arkansas	
AO	WO 00/19823 A1	04/13/2000	The Board of Trustees of the University of Arkansas	
AP	WO 00/20007 A1	04/13/2000	The Board of Trustees of the University of Arkansas	
AQ	WO 00/20625 A1	04/13/2000	The Board of Trustees of the University of Arkansas	
AL2	WO 00/37681 A1	06/29/2000	American Home Products Corporation	
AM2				
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
AR	Aarden, E.M., et al., "Function of Osteocytes in Bone", <i>J. Cell Biochem.</i> , 55:287-299 (1994).	
AS	Bellido, et al., "PTH Prevents Glucocorticoid Apoptosis of Osteoblasts and Osteocytes In Vitro: Direct Interference with a private Death Pathway Upstream of Caspase-3", Abstract, <i>Bone</i> , 23:S324 (1998).	
AT	Dunstan, et al., "Osteocyte Death and Hip Fracture", <i>Calcif Tissue Int.</i> , 53: Suppl: S113-S117 (1993).	
AU	Falcini, F., et al., "Intravenous Administration of Alendronate Counteracts the In Vivo Effects of Glucocorticoids on Bone Remodeling", <i>Calcified Tissue International.</i> , 58:166-169 (1996).	
AV	Felson, et al., "Across-Study Evaluation of Association between Steroid Dose and Bolus Steroids and Avascular Necrosis of Bone", <i>The Lancet April</i> , 18:902-905 (1987).	
AW	Jilka, R.L., et al., "Linkage of Decreased Bone Mass with Impaired Osteoblastogenesis in a Murine Model of Accelerated Senescence", <i>The Journal of Clinical Investigation</i> , 97:1732-1740 (1996).	
AX	Kato, Y., et al., "Establishment of an Osteocyte- like Cell Line, MLO-Y4", <i>J. Bone Miner. Res.</i> , 12:2014-2023 (1997).	
AY	Manolagas, et al., "Interleukin-6-type Cytokines and their Receptors", In <i>Principles of Bone Biology</i> . JP Bilezikian, LG Raisz, and GA Rodan, Editors. Academic Press, San Diego, CA, 701-713 (1996).	
AZ	Noble, et al., "Identification of Apoptotic Changes in Osteocytes in Normal and Pathologic Human Bone", <i>Bone</i> , 20:273-282 (1997).	
AR2	Reid, I.R., et al., "Prevention of Glucocorticoid-Induced Osteoporosis", <i>Journal of Bone and Mineral Research</i> , 5:619-623 (1990).	
AS2	Schwartz, B.D., et al., "Differential Regulation of Prostaglandin E <sub>2</sub> Synthesis and Phospholipase A <sub>2</sub> Activity by 1,25-(OH) <sub>2</sub> D <sub>3</sub> in Three Osteoblast-like cell lines", <i>Bone</i> , 13:51-58 (1992).	
AT2	Weinstein, R.S., et al., "Inhibition of Osteoblastogenesis and Promotion of Apoptosis of Osteoblasts and Osteocytes by Glucocorticoids", <i>The Journal of Clinical Investigation</i> , 102:274-282 (1998).	
AU2	Weinstein, R.S., et al., "Anatomic Juxtaposition of Apoptotic Osteocytes and Avascular Necrosis in Femurs from Patients with Glucocorticoid Excess", <i>Bone</i> , 23:S461 (1998).	

EXAMINER <i>Shulman, H. Shulman</i>	DATE CONSIDERED 3-28-06
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
AV2	<u>Bellows, C.G., et al.</u> , "Physiological Concentrations of Glucocorticoids Stimulate Formation of Bone Nodules from Isolated Rat Calvaria Cells in Vitro", <i>Endocrinology</i> , 121:4-6:1985-1992 (1987).		
AW2	<u>Bellows, C.G., et al.</u> , "Initiation and progression of mineralization of bone nodules formed in vitro: the role of alkaline phosphatase and organic phosphate", <i>Bone and Mineral</i> , 14:27-40 (1991).		
AX2	<u>Bressot, C., et al.</u> , "Histomorphometric Profile, Pathophysiology, and Reversibility of Corticosteroid-induced Osteoporosis", <i>Metabolic Bone Disease &amp; Related Research</i> , 1:303-311 (1979).		
AY2	<u>Broulik, Ph.D., et al.</u> , "Effect of Antiandrogens Casodex and Epitestosterone on Bone Composition in Mice", <i>Bone</i> , 20:473-475 (1997).		
AZ2	<u>Bursch, W., et al.</u> , "Determination of the length of the histological stages of apoptosis in normal liver and in altered hepatic foci of rats", <i>Carcinogenesis</i> , 11:847-853 (1990).		
AR3	<u>Chavassieux, P., et al.</u> , "Short-Term Effects of Corticosteroids on Trabecular Bone Remodeling in Old Ewes", <i>Bone</i> , 20:451-455 (1997).		
AS3	<u>Conaway, H.H., et al.</u> , "Stimulation of Neonatal Mouse Calvarial Bone Resorption by the Glucocorticoids Hydrocortisone and Dexamethasone", <i>Journal of Bone and Mineral Research</i> , 11:1419-1429 (1996).		
AT3	<u>Cline, M.J.</u> , "Drugs and Phagocytes", <i>The New England Journal of Medicine</i> , 291:1187-1188 (1974).		
AU3	<u>Gope, C.L.</u> , "Synthetic Analogues", <i>Adrenal Steroids and Disease</i> , Lippincott, PA, USA, 488-491 (1972).		
AV3	<u>Cushing, H.</u> , "The Basophil Adenomas of the Pituitary Body and their Clinical Manifestations", <i>Bulletin of the John Hopkins Hospital</i> , 1:137-195 (1932).		
AW3	<u>Deloffre, P., et al.</u> , "Comparison Between Bone Density and Bone Strength in Glucocorticoid-Treated Aged Ewes", <i>Bone</i> , 17(Suppl):409S-14S (1995).		
AX3	<u>Dempster, D.W.</u> , "Bone Histomorphometry in Glucocorticoid-Induced Osteoporosis", <i>Journal of Bone and Mineral Research</i> , 4:137-141 (1989).		
AY3	<u>Dempster, D.W., et al.</u> , "Glucocorticoids Inhibit Bone Resorption by Isolated Rat Osteoclasts by Enhancing Apoptosis", <i>Journal of Endocrinology</i> , 154:397-406 (1997).		

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AZ3	Falla, N., et al., "Characterization of a 5-Fluorouracil-Enriched Osteoprogenitor Population of the Murine Bone Marrow", <i>The Journal of The American Society of Hematology</i> , 82:3580-3591 (1993).
AR4	Fitzpatrick, L.A., "Glucocorticoid-Induced Osteoporosis", <i>Osteoporosis</i> , 202-226 (1994).
AS4	Frey, F.J., "Kinetics and Dynamics of Prednisolone", <i>Endocrine Reviews</i> , 8:453-473 (1987).
AT4	Frost, H.M., "In Vivo Osteocyte Death", <i>The Journal of Bone and Joint Surgery</i> , 42-A:1-8:138-150 (1960).
AU4	Gehel, A., et al., "Glucocorticoids Induce Apoptosis in Osteoblasts by the Regulation of BCL-2, BAX and Other Cell Cycle Factors", <i>Journal of Bone and Mineral Research</i> , Abstract, F234:S284 (1997).
AV4	Grardel, B., et al., "Effects of Glucocorticoids on Skeletal Growth in Rabbits Evaluation by Dual-Photon Absorptiometry, Microscopic Connectivity and Vertebral Compressive Strength", <i>Osteoporosis International</i> , 4:204-210 (1994).
AW4	Henriques, M.G.M.O., et al., "Mouse Paw Edema - A New Model for Inflammation?", <i>Brazilian J. Med. Biol. Res.</i> , 20:243-249 (1987).
AX4	Jilka, R.L., et al., "Osteoblast Programmed Cell Death (Apoptosis): Modulation by Growth Factors and Cytokines", <i>J. of Bone and Mineral Research</i> , 13:793-802 (1998).
AY4	Jilka, R.L., et al., "Increased Osteoclast Development After Estrogen Loss: Mediation by Interleukin-6", <i>Science</i> , 257:88-91 (1992).
AZ4	Kawai, K., et al., "Steroid-Induced Accumulation of Lipid in the Osteocytes of Rabbit Femoral Head", <i>The Journal of Bone and Joint Surgery</i> , 67-A:755-762 (1985).
ARS	King, C.S., et al., "Effects of Continuous Glucocorticoid Infusion on Bone Metabolism in the Rat", <i>Calcified Tissue International</i> , 59:184-191 (1996).
ASS	Kleiber, M., "The Fire of Life: An Introduction to Animal Energetics", John Wiley & Sons, Inc., New York Chapter, 10:177-216 and 11:217-230 (1961).
ATS	Klein, M., et al., "A Quantitative Histological Study of Rib From 18 Patients Treated with Adrenal Cortical Steroids", <i>Acta Orthopaedica Scandinavica</i> , XXXV:171-184 (1965).

EXAMINER <i>Shawn H. Shuler</i>	DATE CONSIDERED 3-26-06
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AUS	Knight, B., et al., "Induction of Adjuvant Arthritis in Mice", <i>Clinical and Experimental Immunology</i> , 90:459-463 (1992).
AV5	Li, M., et al., <i>Bone</i> 19:81-88 (1996).
AWS	Lian, J.B., et al., "Species-Specific Glucocorticoid and 1,25-Dihydroxyvitamin D Responsiveness in Mouse MC3T3-E1 Osteoblasts: Dexamethasone Inhibits Osteoblast Differentiation and Vitamin D Down-Regulates Osteocalcin Gene Expression", <i>Endocrinology</i> , 138:2117-2127 (1997).
AX5	Lukert, B., "Glucocorticoid-Induced Osteoporosis", <i>Osteoporosis</i> , Academic Press, 801-819 (1996).
AY5	Lynch, M.P., et al., "Apoptosis During Bone-Like Tissue Development in Vitro", <i>Journal of Cellular Biochemistry</i> , 68:31-49 (1997).
AZ5	Mankin, H.J. "Nontraumatic Necrosis of Bone (Osteonecrosis)", <i>The New England Journal of Medicine</i> , 326:1473-1479 (1992).
AR6	Newman, E., et al., "The Potential of Sheep for the Study of Osteopenia: Current Status and Comparison with Other Animal Models", <i>Bone</i> , 16:277-284S (1995).
AS6	Owen, M., "Lineage of Osteogenic Cells and Their Relationship to the Stromal System", <i>Bone and Mineral Research</i> /3, 1-25 (1985).
AT6	Parfitt, A.M., "Osteonal and Hemi-Osteonal Remodeling: The Spatial and Temporal Framework for Signal Traffic in Adult Human Bone", <i>Journal of Cellular Biochemistry</i> , 55:273-286 (1994).
AU6	Parfitt, A.M., et al., "Bone Histomorphometry: Standardization of Nomenclature, Symbols, and Units", <i>Journal of Bone and Mineral Research</i> , 2:595-610 (1987).
AV6	Parfitt, A.M., "Bone-Forming Cells in Clinical Conditions", <i>Bone</i> , Vol. 1, <u>The osteoblast and osteocyte</u> , 351-430, CRC Press, Boca Raton (1996).
AW6	Parfitt, A.M., et al., "Relationships Between Surface, Volume, and Thickness of Iliac Trabecular Bone in Aging and in Osteoporosis: Implications for the Microanatomic and Cellular Mechanisms of Bone Loss", <i>The Journal of Clinical Investigation</i> , 72:4-6:1396-1409 (1983).
AX6	Parfitt, A.M., et al., "Relations Between Histologic Indices of Bone Formation: Implications for the Pathogenesis of Spinal Osteoporosis", <i>Journal of Bone and Mineral Research</i> , 10:466-474 (1995).

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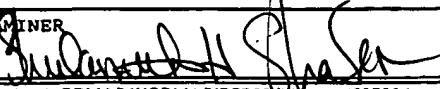
AY6	Quarles, L.D., "Prednisone-Induced Osteopenia in Beagles: Variable Effects Mediated by Differential Suppression of Bone Formation", <i>American Journal of Physiology</i> , 263:E136-E141 (1992).
AZ6	Reid, I.R., "Pathogenesis and Treatment of Steroid Osteoporosis", <i>Clinical Endocrinology</i> , 30:83-103 (1989).
AR7	Stanton, B., et al., "Effects of Adrenalectomy and Chronic Adrenal corticosteroid Replacement on Potassium Transport in Rat Kidney", <i>The Journal of Clinical Investigation</i> , 75:1317-1326 (1985).
AS7	Tomkinson, A., et al., "The Death of Osteocytes via Apoptosis Accompanies Estrogen Withdrawal in Human Bone", <i>Journal of Clinical Endocrinology and Metabolism</i> , 82:3128-3135 (1997).
AT7	Weinstein, R.S., et al., "The Effects of Androgen Deficiency on Murine Bone Remodeling and Bone Mineral Density are Mediated via Cells of the Osteoblastic Lineage", <i>Endocrinology</i> , 138:4013-4021 (1997).
AU7	Weinstein, R.S., et al., "Diminished Rates of Bone Formation in Normal Black Adults", <i>The New England Journal of Medicine</i> , 319:1698-1701 (1988).
AV7	Giuliani, et al., "Bisphosphonates stimulate formation of osteoblast precursors and mineralized nodules in murine and human bone marrow cultures in vitro and promote early osteoblastogenesis in young and aged mice in vivo", <i>Bone</i> , 22(5):455-461 (1998).
AW7	Hill, et al., "Multiple extracellular signals promote osteoblast survival and apoptosis", <i>Endocrinology</i> , 138(9):3849-3858 (1997).
AX7	Jilka, et al., "Dexamethasone Promotes Apoptosis of Osteoblast Progenitors in Murine Bone Marrow Cultures: Antagonism by IL-6 Type Cytokines", <i>Journal of Bone and Mineral Research</i> , 12(Supp):S455, abstract number S411 (1997).
AY7	Manolagas, et al., "New Developments in the pathogenesis and treatment of steroid-induced osteoporosis", <i>Journal of Bone and Mineral Research</i> , 14(7):1061-1066 (1999).
AZ7	Rogers, et al., "Bisphosphonates induce apoptosis in mouse macrophage-like cells in vitro by a nitric oxide-independent mechanism", <i>Journal of Bone and Mineral Research</i> , 11(10):1482-1491 (1996).
AR8	Tomkinson, et al., "The role of estrogen in the control of rat osteocyte apoptosis", <i>Journal of Bone and Mineral Research</i> , 13(8):1243-1250 (1998).

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AS8	Weinstein, et al., "Inhibition of osteoblastogenesis and promotion of apoptosis of osteoblasts and osteocytes by glucocorticoids: potential mechanisms of their deleterious effects on bone", <i>Journal of Clinical Investigation</i> , 102(2):274-282 (1998).
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